

BY PETER BISHOP

Treasure chest

People are always collecting things, from the mundane to the exotic. In Victorian times, tastes ranged from butterflies to birds' eggs, both now happily off-limits. Today a collection might feature buttons, badges, coins, medals, spoons, thimbles...whatever. This little cabinet is the perfect home for whatever you hoard

ah is an interesting and very much undervalued wood. To look at it in the raw, rough-sawn state you could mistake it for a coarse, wild-grained wood. However, once planed and finished it has a emooth and almost siky feel to it.

My choice for this little chest of drawers was to go for so-called olive self. Unlike clear white esh, which commands a higher price, olive ash features random darkening of the grath along the length of the board, making it resemble true office wood; hence the name, it's the result of mineral absorption by the tree during the growth period. In my experience, the colour of these streaks varies from a light strate through to a deeper plinksh brown. I thought it would be ideal to plok up the red of the cherry wood i intended to use for the knobs and feet of the project.

Tallored to taste

Although I've called this place a collector's chast, the project can easily be adapted for

use as, say, a jewellery cabinat, it can also be reduced or increased in size to suit your own personal requirements. Don't forget to take a look at what you'll be putting in it before you stent Lay the learns out each result in the drawer size you'll need. From this you can then worked how big the carcase will need to be

Selecting materials

The chast is quite doep from front to back; therefore the top, base and two sides will have to be jointed from more than one passe. Out the components roughly to size and store them in a warm environment for a week of so (and longer if you can), to help bring them into equilibrium with their eventual location.

Once they're ready, simply plane one tase and square one or two edges to create the joints. Now's the time to step back and take a look at what you've got. Any pieces with slight defects need to go into the base.



Rub the glue into the joint of the main carcase boards to preste a good bond between them



Three clamps will be sufficient to keep these short boards square and flat



Leave the gluad boards to set overnight. Then surface-plane each one.



board; it won't show much when the place is finished. Select the grain for colour and configuration to ensure that the side places will look sumilar, and that the top displays the best features. Don't forget to alternate the growth ring directions as you select the pieces, this will help to keep the finished boards flat and stable.

Gined and rubbed

Once all that's seried out, set your cramps up ready and mix up some glue. At this stage it'd recommend an achiesive that provides a good strong joint; something like Cascamite will do the job perfectly. PVA glue is all right, but it'd save that for the smaller, lighter joints later on.

Apply the glue liberally to both surfaces you're joining. Put one piece in a vice and nut the other stong it, photo 1, working it back and forth to remove any excause glue and to create the good key for the joint. Once the joint is well rubbed, pop if into the cramps, photo 2, tighten them up and leave to cure overnight. Later, these roughly



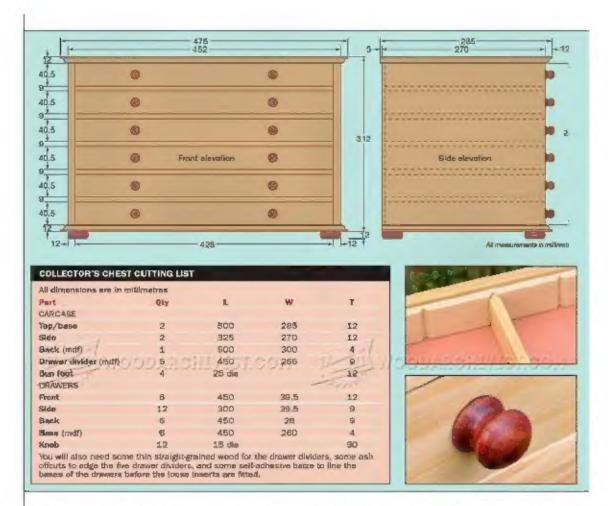
"and then thickness if to its finished size Note the use of a push stick here



Stack the boards on edge to stop them jucking up moisture and warping



Use a router or crossour sew to out the branches in the top and base pieces



jointed pieces can be surface-planed, photo 3, and then thicknessed to their finished size, photo 4.

To stop the finished boards from picking up reclaims one tasks and warping before you have a chance to use them, stack them on edge in a notched batten, photo 5, it's an old trick, but it works a treat!

Box Joints

The next stage is effectively making up a four-sided box, dg 1. The underside of the top and the upper side of the base will be stop and the upper side of the base will be stop arenched to take the two edges. Allow for a small (seey 3mm) overheing at the book edge of the top so that when the chest is placed on something it can but right up to the back edge of the ourlane. That is also

an overhang to the two sides and the front of about 12mm.

Qui the depth of the minches to half the thickness of the top and barre pieces. Stop them about 10mm or 12mm from their ends, not torgetting to allow for the overheng to the front. Set up your router or creasout saw to create the benches, photo 6, and square out the front ends with a sharp chase, photo 7. The sides can then be cut to length and notched to its over the ends of each trench.

Five divisions

The drawer divider sections for the carcase head to be made up next. I used 9mm molifor these, with a solid wood strip attached to the front edge. The strips that are to be planted on the edge of the midficen be any width, phate B, but around 25 nm is ideal. They need to be planed to the cents thickness of the midf. Square one edge of the midf, apply editeste (PVA:) time here), rub the strip on and then cremp it, phate 9. Before the final tightering up, make jure the laceu er all flush.

Once the give has gone off, sand away the excess, photo 10, and finish each divider to its final size, photo 11. Allow 4mm off the width for fitting the back.

New you can mark out the positions of the trenches to take the dividers on the Inside of each side piece, photo 12 Cince these are cut out, photo 13, forth out the front corners of the dividers on the bandsaw, photo 14, ready for assembly.



Clean out and square off by the ends of the trenches with a sharp chisel



A piece of mdf with a solid wood edge gland on forms each drawer divider



The edge pieces are gloed and cramped on. They will be out down to size later



Once the glue has dried, clean off the squeeze-out with a belt sander



The five disprer dividers with their glued-on edges are shown ready for finishing



Mark the positions of the trenches for the dividers on the two side pieces



Cut the five tranches in the side pieces with a crossout saw or a mater



Notch the front corners of the dividers so their edges fit into the trenches



Use a straight cutter in the neuter to form a shallow rebate for the back panel

A dry run

It's nearly time to give up the carcase. First cut a rebate in the back edge of the top, base and sides to accommodate the back pares, photo 15. I used 4mm and for this, and cut the rebate firm wide and 4mm deep with a straight cutter satin my router. Stop before numing out at each end of the top and base pieces and square up the ends to match the sides. Then change the cutter in your router and apply a moulding to the three exposed edges of the top and base parets, needy for essenticly, photo 16.

Have a dry run now, when all the components are made, just to make sure everything thu together smugly, it will also give you an idea of the best assembly seguence to follow.

Assembly time

Having cleaned up all the pieces and planned your approach, get started with the gluing. The dummy run should have Identified the best way to approach the assembly process. I started with the side panels and the five dividers, photo 17, then added the top and bottom panels, photo 18. Work quickly and efficiently through the sequence, checking that the completed narcase is aquare before feeving it to set. Note how (ive set the carcase on a stout board so it's easier to 81 the cramps.)

The following day, release the aramps and clean off the excess glue. Glean up any fixel areas that need it, and out the midf back panel to fit. This can be simply glued and pinned in place, photo 19.

Simple joints

The drawers aren't very deep, so don't make them from afulf that's too thick or they will look out of proportion. I chose to lap-joint and proportion, and to trench the backs into the sides. By all means use lapped and through doveralls in the traditional way if you prefer,... and have the time to space to out them all!

The fronts, sides and becks need to be equere-planed first. The sides and fronts are grouved to take the 4mm thick mot! beses, photo 20. The back is namewer than the sides so the drawer base will slide in past it once the drawer is assembled. Then drill out the knob sockets in each of the drawer fronts, using a backing piece to avoid breakput.



Change culture and form decorative edge mouldings on the tap and best pieces



Start Ifm assembly with a governous report of PVA give in the slife piece trenches



Pit the divides, add the top and bottom and cramp everything up square



Cut biopies for the knobs and lizer, then locate their centres with a centre finder



I turned the knobs in pairs, leaving a generous shaft in the centre of the blank...

Little boxes

Having prepared all the drawer components, I cleaned them up with my sander. As the assembled drawers were so shallow i used a couple of trans camp sets to thold them together two at a time while the glue set, photo 21. Later I out. Amm mell peoples for their bases and sild these into page. Although its mot she traditional method, I also glass death base into its grooves and to the drawer back. I then summed and numbered each drawer to lit into the carcase in the right order, and set them all and a mady for sealing.

Acrytic aside

like to use scrylic lacquer to finish lighter woods, because it lends to retain the original policure well. If the using a darker wood, then a polyunathane sealer glives better protection and looks good when out back, waxed and polished. The satin linish scrylic lacquer it used for this project recommends a three-coal application, and they and wiping off the residual sibs and dust

between the second and third coats if you do this well and take care with the lines coat, then the finish should be perfectly smooth and tian.

Time for turning

i cut aquierus for the cherry knobs and bun feel out of some offcuts. I then used a centre finder to merk the centre of each blank accurately, photo 22, tiefore mounting if between centres on the lathe, I timble she knobs in pairs, photo 23, with a generous shaft in between. Once most of the shaping and finishing was done, I book them of the lathe and out through the middle of this shaft. I then mounted a chuck in the lathe and each knob was finished in this.

Next I furned the bune in one length with spaces in between, photo 24. To enhance their cherry red looks, I applied a liftle spirk sain to them. Later I seeled them, relumed them to the laths, cut them back and then seeled them again, photo 25.

With knobs on

I trimmed the knobs' shalts to length to lift firrough the holes I'd drilled sartier in the fronts of each drewer, photo 26, and made a couple of line saw cuts in the end of each shall so take they wedges. Insert each pair of knobs with glue in the sockets. Then tap in the wedges to hold them in place, photo 27. Braily, remove the bun teef from their turning stalk, centre-drill them and screw one in place to each center of the base.

Silver lining

Early on I'd decided that the base of each drawer would be lined with base or thin fall. Hunting around on the Internet, I came across a supplier of thin self-acheave felt in



Out the mill back panel to size, and give and pin it anto place in its rebate



The drawer fronts and sides will to tap-jointed, The groover will recept the milf base pamels



i used a couple of frame cramp sets to hold the drawer boxes together



Just teachest the four burniest in one length so I could check their thickness



I now had six demons, 12 knobs and tour bun foot teach for Roling

a variety of colours; this seemed ideal. I chose a light period to count to go with the chiety and the neture introduction in the ash lithwas a streightforward job to cut it to size, photo 28, and to line each drawer.

I used some of the obtains on the underside of the bun feet, photo 29, cutting out time closes and statisting them on. They conceed the screws and will protect stry polished surface the cheet might be set on.

Locae Inserts

I planned to fit lease dividers in each drawer, held in place by a procused strip string at the front and back of the drawer. The dividers have Vahoped ends, and can be lifted out ill required to create vider compartments. You can see from the finished photos that I've arranged the various drawers with three, four, five or ten compartments.

The width of the planed-up treaterial for these inserts was finished alighity narrower than the inside depth of each drawer I but 12 pieces — two for each drawer — about 50mm longer that the internal drawer width. If then marked one out inso ten equal segments, ready for grooving.

A simple jig

Fortunately I had a router jig made up for this teak form a previous project. If you have

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CHANGE OF COLOUR

The chall have an after my making her solute gly all himself extension at the source plan. The dark one shown below in made from it, med and stained gall with about a wind, feet and kinds and with the wear med an object per

The furning process involves the use of animonia is a seed polythoris furning chamber. Do tall a care whom using this stuff, on a care by aginet roybour fivour grows with Price your project in the chamber, pour owner a name solution into chamber of the chamber. The animonia furnishment of the chamber of the chamber of within the transit and materially occurring within the one. The force you care the wood, the direct if you have been also off the animonia effect, then any our could be wood to lituate from Aniower in your care, just for force you can even mix and make the driver you can even mix and make the driver between the own mix and make the drawer bottless in the own.



The furned east characters in abortion without togethe broke worst make a providing without



lined the call drawes with blue base for contrast before filling the base inserts



Falling three of the downers from any soft cheek Awarded an integrang colour contact.



Check that the drilled hole is clear of swarf, and make two fine cuts in the shift of each knob



Measure twice and ruit lines if you don't want to waste the barre lining!



Glue each knot in place and drive two tiny wedges into the saw outs to lock it in place



Cut four small circles from the balan offents and stock them on the underside of the bury fact.

This simple |ig makes

This simple Jig makes light work of routing the growns in the drawer monts, cosuming that you endup with matched pairs of components



to make one, take a look at photo 30 You'll need a baseboard, some side battens on top of this, deeper than the material you're working on, and two silding sections at right angles to this to take the router base. Fit your nuter cutter and extend it to it cuts into the bottom board. Nates a cut sight across this board, and you'll then have an exact contre point for each of the V grooves.

Feeling groovy

I champed and wedged all 12 of my pieces in place edge to edge, and him the router across the light ocut the V about halfway through their thickness. Then I took them out of the ligh turned their noused and did the same on the other end, repeating the process until all the grooves were cuft. This

way you'll end up with marched pairs.

Once I'd cut all the grooves, I trimmed these pieces to tit each drawer and marked them front' and 'back' on their bottom edges. I then cut all the loces pieces that would form the spacers to langth and created at Vahape on each end. If you're using soft stall you can do like try hand, or by patting a powered saw at 45°. Once I'd made enough of these, I fixed them into each drawer to fixeh them off.

Finally, I but back the previously sealed drawer runners with fine steel wool and wasset them. This reduces friction and allows the drawers to slide in and out smoothly. All ther was left new was to fill up the chest with my closen treasures, and to put it on display!